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1. A12-100: 3 kW Lightweight Efficient Generator

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: The objective of this project is to design, develop, and demonstrate an advanced small, lightweight man portable multi-fueled 3,000 W power unit. A key tenet of this power unit is that it should take advantage of recent advances in small lightweight high speed internal combustion engines which include but are not limited to unmanned aerial vehicles (UAV) engines. DESCRIPTION: The ...

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2. A12-112: A New Generation of Actuators for Robotic Systems

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Design and prototype adaptive actuators for medical robotic systems to improve the robotic capacity needed for future medical robotic applications, such as heavy patient lifting, combat casualty evacuation, dexterous manipulation, and combat casualty care. DESCRIPTION: Background. Today"s robot systems have been evolving from industrial applications into human services. Robots are tr ...

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3. A12-109: A Real-Time, Non-Invasive Monitoring System to Guide Accurate

[Fluid Resuscitation of Combat Casualties During Pre-Hospital and Transport Medical Care]

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop an advanced decision-support medical monitor driven by algorithms that provide real-time processing of physiologic signals for the purpose of guiding accurate fluid resuscitation in humans who are hypovolemic due to hemorrhaging. The algorithm will run in real time on a resource constrained portable device. The final device should provide a wireless connection between the patien ...

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4. [A12-117: Adapting SmartPhones for Ocular Diagnosis]

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop a stereo-photo Smartphone ophthalmic slitlamp (system), with accessories and software applications for ocular diagnosis in remote or austere locations where ophthalmic or optometric support is unavailable, such as military forward operating bases, ships afloat, or disaster areas, or humanitarian missions. DESCRIPTION: Ocular injuries currently account for approximately 13-22 ...

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5. [A12-082: Advanced Nonintrusive Dispense Tracking Diagnostics for Aerospace Delivery Vehicles]

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: To develop accurate nonintrusive techniques to track sub-missile dispense in very high speed flows. DESCRIPTION: Missile carriage has been both proposed and used as a practical means for the delivery and dispense of sub-missiles while offering the advantage of quick response out to a considerable range. Here the term sub-missile covers a broad spectrum to include munitions, airframe ...

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6. [A12-076: Advanced Seal Technology for Helicopter Drive System Application]

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop and demonstrate advanced high speed seals for helicopter drive system application. The objective is to develop low cost, low friction, high speed seals as an alternative to existing seal technology. DESCRIPTION: There is currently a need in the Army for advanced seals in helicopter gearboxes. These seals are used to keep fluids from escaping the gearbox. The helicopter i ...

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7. A12-099: Air-to-Air Targeting Algorithms for Turreted Gun Systems

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop air-to-air targeting algorithms for a turreted gun systems such as found on AH-64D helicopter (Reference 1) that could use impact, proximity and airburst fused rounds. The application of this technology applies to helicopters, ground vehicles and ships. This system will increase accuracy against air targets and ground targets, thereby reducing collateral damage and increasing su ...

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8. A12-088: Alternative Source for Neutron Generation

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop an alternative technology and methodology to conduct nuclear survivability testing of US weapons and Space Systems from the current approach that employs nuclear reactor. Develop a technology that can provide the Neutron and gamma environment for test and evaluation consistent with requirements established in Department of Defense Instruction (DoDI) 3150.09 and Army Regulation (...

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9. A12-081: Analysis Tools for Composite Laminate Material Properties Prediction

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Successful fielding of lightweight composite material components requires dependable material property data early in the design cycle. Full sets of laminate data can be costly and time consuming to generate. The objective is thus to develop the analysis techniques for reliable prediction of fiber reinforced polymer matrix composite material properties based on ply level material propert ...

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10. A12-096: Anthropometric Casualty Estimation Methodologies

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Define, develop and demonstrate anthropometric casualty estimation methodologies for analyzing personal protective equipment fit and form taking into account individual body shape differences impact on Soldier protection DESCRIPTION: Soldier force protection is a major Army challenge to ensure the highest degree of Soldier survivability across the spectrum of Army operations. Soldier ...

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